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Office Memorandum . United states government

TO :	Chief, TSS/DDP D.	ATE:5 December 1956
	R&D/APD Chief, Administration and Training Staff/OS	
SUBJECT:	R&D Technical Equipment, request for	A
		25X1
	1. For some time this office has had under replacement of the BELL Tape Recorders currently used in operational support activities.	sed by
	shown a need for recorders embodying features pecusary to this type of activity which are lacking in	
	2. Recent testing of an AMPEX recorder, modi in accordance with certain recommendations of this shown this unit to be well suited, as modified, for tended. In addition to modifications in the record as indicated below, the unit was removed from the ing case in which it comes from the manufacturer	office, have or the usage in- eding unit proper,
		25X
	3. A prototype model has been turned over to for study, necessary testing and evaluation.	25X
	4. On the basis of examination and testing by OS facilities, the following conclusions were recommendations made for the modifications to be in AMPEX recorders proposed for issue to	reached and
	RECORDER:	25X1
	a. The AMPEX was selected for its high-question, and ruggedness incorporation of basic features consider its contemplated use.	ss, as well as
	b. The prototype recorder has been modifit to single speed operation (3 3/4"). I should similarly be modified for single	lecorders issued
	c. It should be fused and the fuse should accessible, mounted on the top control ble, where it can be replaced easily a	panel, if possi-

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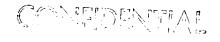
CONFIDENTIAL

- d. Recording heads should be of the plug-in type, again for the purpose of ready replacement.
- e. The three-prong microphone receptacle should be removed, if feasible, and replaced with a conventional telephone jack receptacle.
- f. A separate motor switch should be incorporated in the recorder so that it can be used for monitoring with the reel motor off.
- g. A relay switch should be added so that the recorder motor can be turned on by remote control. A six-volt relay with a Jones #301 receptacle on the panel is suggested.
- h. The addition of a footage indicator is recommended.

CASE AND MOUNTING:

- i. The recorder should be mounted in a conventional man's suitcase. A suitcase of "Samsonite" or a similar sturdy material, in a conservative color, is suggested. The suitcase should have a removable cover and it should not be the type in which the cover and bottom meet on a bias.
- j. The suitcase should be somewhat larger than the one in which the prototype is mounted. The recorder should be centrally mounted so that the suitcase is well balanced for carrying, with its longitudinal axis at right angles to the longitudinal axis of the suitcase, permitting use of the free space at the ends of the suitcase for storage of spare reels, tools, cable, etc.
- k. The recorder should be firmly mounted in the suitcase. The metal container and the elaborate padding of the prototype are not necessary. Mounting by means of four bars, one at the top and bottom of each of the two sides of the recorder, rigidly fastened to the sides and bottom of the suitcase, with the recorder mechanism protected by some type of an expanded metal grill at the sides, is suggested.





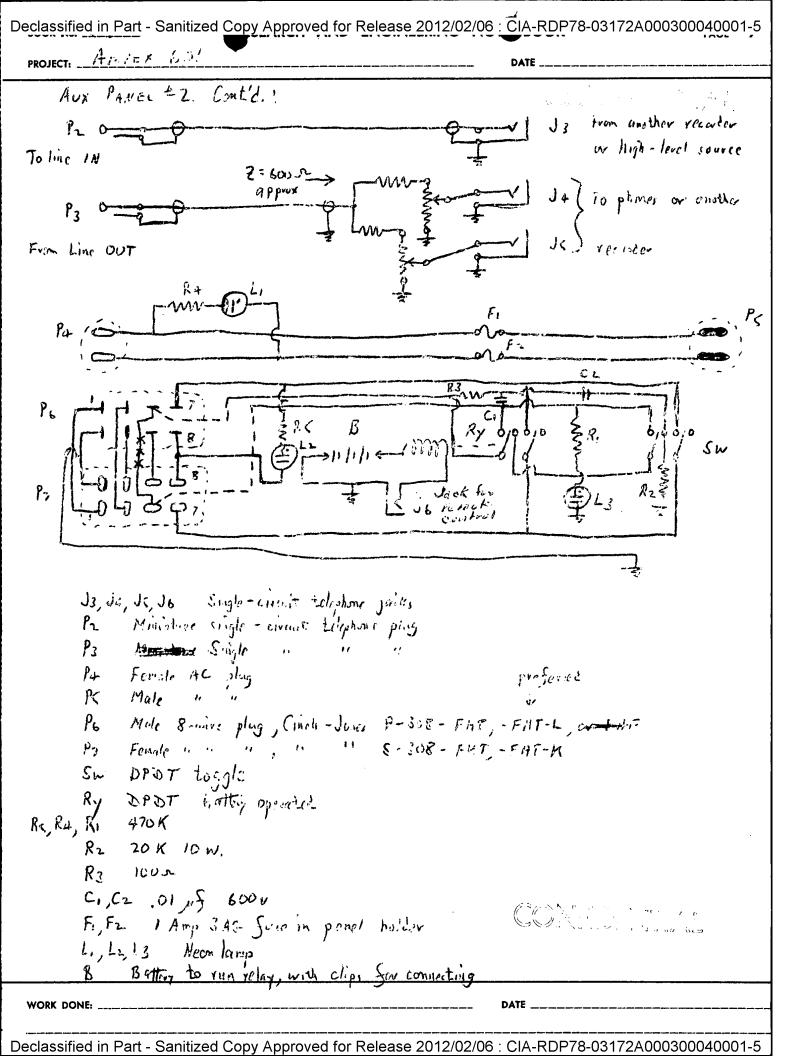


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5. In addition, the followi were recommended for issue	ing items of accessory equipment 25X1
ACCESSORY EQUIPMENT:	
ceptacle of the reco	These units, 25X1 CCHCRAFT, plug into the input re- order and permit use of two micro- dual volumen controls for each
	ring iron, such as the one manufac- ompany, #776 handle and #1235 heat- pyramid tips.
n. A volt-ohmmeter (20,	000 ohms per volt-D.C. scale)
o. A set of miniature K nose, and long flat-	raeuter pliers (diagonals, needle- nose pliers).
	etion. It may be determined that a major portion of the changes. and that the modifications may be
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AUTHORIZING OFFICER	
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